

Physics 2400

Fall 1997

Villanova University

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General Policies

1. Course Overview and Objectives - This course is the first semester of a calculus based physics course intended primarily for engineering majors. The basic objective is to develop an understanding of the fundamental aspects of kinematics, dynamics, work and the conservation of energy, collisions and the conservation of linear momentum. Since many engineering students will be taking advanced courses in these topics later, the purpose of this course is to stress the basic concepts upon which these later courses will be based. One of the primary ways to achieve this is by the process of problem solving. The emphasis then will be the application of the basic concepts through the solution of problems of practical interest. Students will be required to exhibit their grasp of the material by solving problems on tests and, at the instructor's option, doing problems for recitation.

2. Attendance - Attendance is strongly suggested for all students. A student who has to miss a test or a quiz must notify the instructor before hand if at all possible; in addition, a **legitimate excuse must be presented to the professor in writing within five (5) days thereafter.**

3. Academic Honesty - Failure to maintain the code of ethics will be grounds for immediate failure of the entire course without any other additional warning.

4. Homework - Problem sets are assigned for each chapter (do **not** underestimate their importance for your success in this course). A number from each set may be collected and graded. **No collected homework set will be accepted after its due date.**

5. Tests and Final Exam - Pocket calculators are necessary. No notes or formula sheets may be used. Three tests will be given during the course of a semester. Grades will be determined from a total of 550 points. The final, which is cumulative, will count 150 points; individual tests will count 100 points each; an additional 100 points will be determined from homework and/or quizzes.

Problem Assignments

Day	Date	Chapter	Problems
Mon	Aug 25	1 & 2	Ch 1; 1,3,4,17,21,32,38,42, Ch 2; 1,2,17,21,24,25,27,30,35,44,45,48,58,63
Wed	27	2	
Mon	Sept 1	OFF	

Wed	3	3	Ch 3; 1,13,22,32,36,38,42,43,44,46,48,49
Mon	8	3	
Wed	10	4	Ch 4; 4,5,8,10,11,13,14,16,26,28,30,31,35,43,47,50
Mon	15	4	
Wed	17	4	
Mon	22		Test #1 Ch. 1-4
Wed	24	5	Ch 5; 1,4,5,7,13,15,18,21,26,30,32,33,38,39,43,45,47,55,58,69,74
Mon	29	5	
Wed	Oct 1	5	
Mon	6	6	Ch 6; 1,4,11,12,13,21,22,35,37,43,49,51
Wed	8	6	
Mon	13	OFF	
Wed	15	OFF	
Mon	20	7	Ch 7; 1,7,8,12,17,21,24,32,37,43,44,47,51,57
Wed	22		Test #2 Ch. 5-6
Mon	27	7	
Wed	29	7	
Mon	Nov 3	8	Ch 8; 1, II, 15,17,19,21,22,25,30,31,35,46,50,55,57,59
Wed	5	8	
Mon	10	8	
Wed	12	9	Ch 9; 1,2,10,13,18,26,37,40,45,52,61,62,72
Mon	17	9	
Wed	19	10	Ch 10; 1,3,6,7,11,13,15
Mon	24	10	
Wed	26	OFF	
Mon	Dec 1	14	Ch 14; 5,6,8,19,21,26,29,36

Wed	3		Test #3 Ch. 7-10
Mon	8	14	
Wed	iu		Review
Mon	15		Final - Cumulative