

Preparatory Physics PHYS

50

Lecture MW 530-720 PM Rm S3-5

Instructor: Dr Bobby Lau

Office Hours: 430 pm MW S3-5

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Official Text: [James Walker, Physics](#) (optional, this is a link to library copies)

Free Text: [Openstax College Physics](#) (downloadable PDF and online HTML format)

References: [Serway & Jewett](#), Sears & Zemansky, Young & Freedman, Halliday & Resnick

Course Objective

Students should be able to solve problems involving motion with more than one object, in one and two dimensions and with multiple, constant accelerations. Students should be able to solve problems involving any number of forces including gravity, the normal force, tension, friction, force from ramps, pulleys. Students should be able to solve problems involving circular motion.

Lecture

You are responsible for all of the material covered in class unless stated otherwise. Questions are welcome and encouraged during class. Please be considerate to your classmates and me and keep disruptions to a minimum.

If you are not in attendance the first two class meetings, you will be dropped unless you contact me about your absence. Dropping the class before the deadline is your responsibility.

Homework

There will be a set of homework problems that are graded. Your grade will be based on the written solution, that is, the explanations and reasoning, not just the answer. You are strongly encouraged to work together on all homework. However, each person shall write out an individual solution for grading.

Exams

The exam schedule is shown on the calendar. Be neat and organized in your answers if you want to receive the maximum partial credit.

For each exam,

1. Have a California picture ID with you.
2. You will need a scientific calculator. Nothing fancy but you have to know how to use it.
3. Access to any internet-connected device is NOT allowed during any exam.
4. You must remain in the room until you turn in your exam.

Grades

Your total grade will be based on the following set of percentages: homework 20%, three exams 20% x 3 and the comprehensive final is 20%.

Letter grade ranges are: A± = 90-100, B± = 80-90, C/C+ = 70-80, D = 60-70, F < 60%.

Quarter Calendar

M	T	W	R	F
24	25	26	27	28
1	2	3	4	5 Add DL 6 Drop DL 7
8	9	10	11	12
15	16	17 Exam 1	18	19
22	23	24	25	26
29	30	31	1	2
5	6 Electron Day	7 Exam 2	8	9
12 Veterans Day	13	14	15	16 Withdraw DL
19	20	21	22 Thanksgiving	23 Thanksgiving
26	27	28 Exam 3	29	30
3	4	5	6	7
10 FInal 615-815	11	12	13	14

Student Learning Outcome(s):

*Critically examine new, previously un-encountered problems, analyzing and evaluating their constituent parts, to construct and explain a logical solution utilizing, and based upon, the fundamental laws of mechanics.