

2015

Physics 141 Mechanics Summer 2015

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Summer 2015 Physics 141 Syllabus

June 15th, 2015

Instructor: Dr. Keiko Kircher

- First name is to be pronounced as "Cake-O"
- Please do not use Miss, Ms., Mrs., or Mr. to address me.
- Call me with one of the following: Keiko, Dr. Keiko, Dr. Kircher, Beautiful

Office: L240

Contact information: keikoino@gmail.com

Office Hours: Tuesdays and Thursdays 11:00am-noon at L240

Text: Fundamentals of Physics, 10th edition, by Halliday, Resnick and Walker (extended edition).

Prerequisite: Calculus 1 or equivalent.

Content: This course deals with motion and its causes. The 'motion' part is called kinematics and is described using concepts such as velocity and acceleration. The 'causes' part is called dynamics and introduces concepts such as force, momentum and torque.

Lecture plans:

<i>Day</i>	<i>HWdue</i>	<i>Chapter</i>	<i>Agenda</i>
6/15	--	2	<i>Introduction, 1D motion</i>
6/16	1	2	<i>1D motion</i>
6/17	--	4	<i>2D motion, Lab</i>
6/18	2	4	<i>2D motion</i>
6/22	--	4	<i>2D motion, Lab</i>
6/23	3	4	<i>2D motion</i>
6/24	--	9	<i>Center of mass, Review</i>
6/25	4	--	<i>Question time, Exam1</i>
6/29	--	5	<i>Newton's laws, Lab</i>
6/30	5	5	<i>Newton's laws</i>
7/1	--	6	<i>Newton's laws, Lab</i>
7/2	6	--	<i>No class</i>
7/6	--	6	<i>Newton's laws, Lab</i>
7/7	7	7	<i>Work and energy</i>
7/8	--	8	<i>Work and energy, Review</i>
7/9	8	--	<i>Question time, Exam2</i>
7/13	--	9	<i>Collisions, Lab</i>
7/14	9	9	<i>Collisions</i>
7/15	--	10	<i>Rotations, Lab</i>
7/16	10	10	<i>Rotations</i>
7/20	--	11	<i>Torque, Lab</i>
7/21	11	11	<i>Torque</i>
7/22	--	12	<i>Equilibrium, Review</i>
7/23	12	--	<i>Question time, Exam3</i>
7/27	--	12	<i>Solids and Fluids, Lab</i>
7/28	13	14	<i>Solids and Fluids</i>
7/29	--	13	<i>Gravitation, Lab</i>
7/30	14	13	<i>Gravitation</i>
8/3	--	15	<i>Oscillation, Review</i>
8/4	15	--	<i>Question Time, Exam4</i>
8/5	--	--	<i>Special Topic, Review</i>
8/6	--	--	<i>FinalExam</i>

Grades:

The grades are compounded in the following way:

Homework 15%

Discussions 10%

Quizzes 10%

Labs 15%

Hour exams 30 %

Final exam 20%

Letter grades will be assigned as follows: A 90%, B 80%, C 70%, D 60%.
I may decide to curve if it seems reasonable.

Homework:

Homework assignments are due on Tuesdays and Thursdays before my lecture starts. You are to obtain homework through cobra. You may drop one lowest homework score at the end of the semester.

Reading assignment:

A reading assignment is assigned daily, to solidify your knowledge of what is covered in class each day. I will tell you the page numbers, and you are to read the sample problems in those pages. Your work will not be checked, but it is strongly recommended that you write down the solution to the sample problems of the sections that we covered that day.

Discussions and Quizzes:

Discussion and Quizzes are done on Tuesdays and Thursdays. You may drop the lowest grade of each at the end of the semester. There is no make-up quizzes under any circumstances. Quiz problems are closely related to problems in your reading assignments.

Labs:

Labs are done on Mondays and Wednesdays. Each day, there will be a handout distributed at the start of the lab session that will outline your experiment/activities. At the end of each lab period, you need to turn in a short summary of your lab. You need to obtain 60% in labs in order to pass the course. You may drop the lowest lab grade at the end of the semester.

Exams:

There will be four hour exams. If you cannot come to class on exam days with good reasons, you may take them early. However, there is no make-up exams under any circumstances. The lowest hour exam grade will be dropped.

The final exam will be given on 8/6 at noon in M124.

Missed assignment policy:

I do not allow any late or make-up assignments under any circumstances.

If you are too sick to come to the class to turn in your assignments or to take quiz/exam/discussion, please e-mail me to keikoino@gmail.com BEFORE the class, with an explanation of why you cannot show up. If you do so, I will give you an excused grade (counts as your average score). If your e-mail doesn't get to me before the class, your score will be zero. If you are too sick to even e-mail me before the class, you need to later give me a doctor's note in order to get an excused grade. Please give it to me as soon as you can.

If you cannot come to class but still would like to turn in your homework, I will accept homework through emails ONLY if you have a reason to get an ex grade, and if the email is sent to me before the deadline. I do not accept homework through emails for any other reasons.

Again, what you get with good reasons to miss classes is the right to take/turn in assignments EARLY or to obtain excused grades. **YOU DO NOT GET THE PRIVILAGE TO TAKE QUIZZES AND EXAMS LATE, OR TO TURN IN YOUR HOMEWORK LATE.**

Extra credit policy:

I do not give any extra credit to any students by letting them do extra work (though I may give everyone an opportunity to get some for other reasons). Please don't try to get any extra credit at the end of the semester by making up for your missed assignments and doing extra research work. You having have to keep good grades for a scholarship is one common excuse that will definitely not work.

Disability

If you believe you have a disability for which you need an academic accommodation (including special testing, auxiliary aids, non-traditional instruction formats) please contact the following person and inform me as soon as possible:

Cathy Robinson (X148, 353-2082), Director of Disability Services,
crobinson@parkland.edu.

Center for Academic Success

If you find yourself needing assistance of any kind to complete assignments, stay on top of readings, study for tests, or just to stay in school, please contact the following staff at the Center for Academic Success:

Gail Hoke

Room: D120

Phone: 351-2441

You may also email the CAS at CenterForAcademicSuccess@parkland.edu.