Phys 201 Syllabus
Spring 2018 Sierra Hall 2422 Mon/Wed 3:00pm-4:15pm

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Office Hours: Mon/Wed 4:15-5:125pm, Thurs 2-3pm
and By Appointment.

Welcome to physics 201!
Text: University Physics by Ling, Moebs, Sammy (OpenStax.org free, online textbook)

Tentative Timeline:

Week	Week of Mon:	Chapter(s)	Notes:
1	Jan 22	5	Coulomb's Law/E Field
2	Jan 29	6	Gauss law
3	Feb 5	7	Voltage, Last week to drop w/o W
4	Feb 12	8	Capacitance
5	Feb 19	9,10	DC Circuits, Exam I
6	Feb 26	11	Bmagnetic Field
7	Mar 5	12	Ampere's Law
8	Mar 12	13	Induction
	Mar 19		Spring Break
9	Mar 26	14	Induction
10	Apr 2	15	AC Circuits, Exam II
11	Apr 9	16	Maxwell's Equations/EM waves
12	Apr 16	Notes	Thermal
13	Apr 23	Notes	Thermal
14	Apr 30	Notes	Thermal
15	May 7	Review	Review/Exam III

Grading:
Quizzes   – 15% (Drop lowest score – no make-up quizzes)
Homework – 20%
Lab   – 10%
Exams   - 55% (equal weights to each of the three exam)

Quizzes – at least three (3) and at most six (6) quizzes will be given, at least one prior to each exam, and last from 10 to 25 minutes. The lowest quiz score will be dropped from the final grade. There will be no make-up quizzes.

Homework – Homework is assigned from **masteringphysics.com** and from additional written homework will be posted online. Late online-homework will not receive full credit.

Labs – Lab exercises require informal write-ups and/or a brief presentation of results in class. One low lab score shall be dropped – meaning if you miss one lab, there is no need to inform the instructor. Exam questions may be drawn directly from laboratory activities. If you miss an activity, you may ask to go over the activity briefly during another lab, or office hour, or make an appointment to do so.

Exams – Three closed book exams are scheduled. An equation sheet shall be provided for each. Each exam has equal weight and mostly covers the most recent course material. Physics builds on prior knowledge, thus older material may appear. Sample exams provided will give examples.

Disabilities – Students with disabilities needing accommodation, should make requests to Disability Accommodation Services, Bell Tower, East Wing, Room 1796 (805-437-8528) . All requests for accommodations require appropriate advance notice to avoid a delay in services. Please discuss approved accommodations with me.

Cheating – is unacceptable conduct from a college student and any cheating or plagiarism in connection with academic work will be subject to academic discipline as specified in the schedule of classes.

Webpages –
- online homework: http://www.masteringphysics.com for which you need an access code which either came with your text, or can be purchased online and you will need to join the course called: CIPHYS201SPR2018

Student Learning Outcomes

- explain the basic concepts and principles of physics
- apply problem-solving skills to practical problems of everyday life
- demonstrate the role of physics in other disciplines, and apply their understanding to these disciplines
- use a variety of simulation programs to derive conclusions about experimental situations
- organize and express ideas clearly and convincingly in oral and written forms.

General Education – This course satisfies General Education Category B-1: Physical Sciences by:
- presenting the principles and concepts of many areas within physics.
Reasoning skills are addressed by
- solving a variety of problems, with real-world applications
- simulating and modeling a variety of physical situations

🕐 performing experiments, acquiring and analyzing the data and considering its accuracy and precision.

The course promotes

🕐 an understanding of scientific methodologies

🕐 the application of basic concepts to complex and diverse scientific problems

🕐 an awareness of the significance of science and technology to world civilization