# Physics 221 Recitation/Lab Syllabus

## Course Information

**Instructor:** Dr. Alvin Saunders  
**E-mail address:** asanders@utk.edu  
**Class:** Physics 221 Section 70132  
**Lecture time/Room:** T/R 9:40 AM – 10:55 AM, Phy 415

## Lab/Recitation Information

**Instructor:** David McAllister  
**E-mail address:** dmcalli1@utk.edu  
**Class:** Physics 221 Section 70132  
**Recitation time/Room:** R 11:15 AM – 12:05 PM, Phy 508  
**Lab time/Room:** R 12:20 PM – 2:15 PM, Phy 508  
**Office hours:** R 9:30 AM – 10:30 AM, W 10:00 AM – 11:00 AM or appt.

## I. Grade breakdown

Lab represents 30% of total Physics grade. Grades will be posted beginning the 1st week of February, updated each week, on the Lab door.

A. Lab: 80%
   1. Lab Report: 70%: See attachment 1 for Lab report guidelines
   2. Pre-Lab quiz: 20%
   3. Lab setup/demonstration 10%

B. Recitation: 20%—Quizzes.

## II. Recitation

A. There will be a quiz at the end of each recitation period (except the 1st meeting) over material covered in lecture and recitation. Quizzes will be closed notes/book, on average 2-3 questions.

B. Recitation sessions will cover chapter currently being discussed in lecture. Due to time restrictions we will cover the chapter material in an overview style. Any questions on the material will be entertained, and can be discussed at more length during office hrs. Notes will be provided and homework styled problems will be worked. Specific problems should be e-mailed before class.

C. See Attachment I for a tentative schedule for recitation. The plan is cover one chapter per meeting.

D. Make sure to bring text book to class.

E. Please make sure during the 1st week that you have access to the online homework system, CAPA. The URL is [http://homework.phys.utk.edu/capa-bin/class.html](http://homework.phys.utk.edu/capa-bin/class.html). This will be covered briefly during the 1st lab.

F. Problem solving techniques will be discussed. Physics problems can be solved by using specific methods of organizing the information given.
III. Lab:

A. The lab book for this course is *Selected Introductory Physics Experiments*. Please bring this to each lab.

B. See Attachment II for complete Phys 221 Lab schedule. This can be found on the Physic homepage: http://www.phys.utk.edu/labs/ph221syl.pdf

C. There will be a Pre Lab quiz given at the beginning of each lab. Students are expected to read the lab before class. The quiz will ask questions concerning the physics involved and about the design of the lab.

D. After the quiz the lab will be discussed including setup, physics principles involved, and what will be expected on the lab report.

E. See Attachment III for the lab report outline. All lab reports must be typed. Microsoft Excel will be used to record all experiment data.

F. Students will be allowed to work in pairs (groups of 2). Each student will be responsible for turning an individual lab report.

G. When students have set the lab up and begin data acquisition, they will be required to show the instructor and demonstrate the lab. This is a part of lab grade and required to show that the students understand the physical principles involved. (where applicable)

H. When the experiment is done, students should return the lab equipment to the proper initial setup. Lab reports should be written out of class. Reports are due at the beginning of the next lab period.

I. There are 12 total labs, 11 will require a lab report. The instructor will choose the lab not due for write up.

J. There is not a lab final for this course.

K. Please notify Lab Instructor if you are repeating the course and wish to use a previous lab grade.

IV. Lab/Recitation makeup:

A. Lab makeup is only offered for missed labs. See Attachment II for scheduled times.

B. Recitation quizzes cannot be made up.

C. There are several other lab/recitation periods during the week. If you need to miss a class, please try to attend one of these other periods. All lab times are posted at: http://www.phys.utk.edu/labs/508sched.pdf

V. Etcetera:

A. If you have any questions, concerns, or require special accommodations, please see the Lab Instructor before/after class.