

# PHYSICS 9B-A

# SYLLABUS

FALL 2007

**TEXT:** *Sears and Zemansky's University Physics*, Young & Freedman, 11<sup>th</sup> Edition, Vol. I & II.

**INSTRUCTOR:** Dr. Kai Liu, 207 Phy/Geo; 752-4109; kailiu@ucdavis.edu

**LECTURE:** TR 10:30-11:50am, 66 Roessler

Office Hours: M 3:10-4:00pm, 158 Roessler; R 3:10-4:00pm, 207 Phy/Geo.

**DISCUSSION:**

Leader: Nelson Page, napage@ucdavis.edu

Group	1:	R	4:10-5:00pm	148 Phy/Geo	2:	R	5:10-6:00pm	148 Phy/Geo
	3:	R	6:10-7:00pm	148 Phy/Geo	4:	R	7:10-8:00pm	148 Phy/Geo
	5:	M	4:10-5:00pm	148 Phy/Geo	6:	M	5:10-6:00pm	148 Phy/Geo
	7:	M	6:10-7:00pm	148 Phy/Geo				

Office Hour: W 5:10-6:00pm 158 Roessler

**READER:** Ai-Chien "Noel" Chiu, acchiu@ucdavis.edu

**COURSE WEBSITE:**

<http://my.ucdavis.edu>: For assignments, solutions, announcements, scores, etc.

<http://www.physics.ucdavis.edu/faculty/kliu/Phy9b/Index.html>: For updated schedules & notes.

**COURSE REQUIREMENTS:**

You must be enrolled simultaneously in a lab section. Failure to take and pass the lab results in an automatic "F" for the entire course. "High-pass" ups your lecture grade by one step, up to A (e.g., A- to A, but not A to A+); "Pass" does not change your lecture grade; "Low-pass" lowers it by one step, down to D- (e.g., D to D-, but not D- to F). Download lab manual at:

<http://www.physics.ucdavis.edu/Classes/Physics9Lab/Phy9BLab>

Attending the lectures and discussion sessions is required. *Think* about the physics we discuss. Read the textbook before class. I anticipate your involvement and feedback throughout the lecture, in the form of Q/A's, discussions, live experiments, etc. At the end of each class, write a one-minute note, describing what you've learned, what you don't understand, and comment on my pace and teaching style, suggestions, etc. Summarize the lecture for yourself too.

**HOMEWORK, QUIZZES AND EXAMS:**

Homework will be assigned but not collected. You are expected to have completed the homework by class time on the quiz date. There will be several 15-min, *closed book and notes* quizzes at the end of lecture on the dates specified (see webpage). We will drop your lowest quiz score, but no makeup quizzes. The quiz will consist of two to three slightly modified homework problems (numbers changed, etc). The homework problems are a very important part of the course and those assigned are considered the bare minimum necessary to understand the course material. A student wants to get an "A" should expect to work many more problems on his/her own.

There will be a mid-term and a final exam. Only on these exams will you be allowed one 8.5"x11" sheet of notes and a calculator. All integrals and constants will be provided, but no physics formulae. The problems in midterms & final will be similar to those in your homework, but may be asked *differently*. Do not expect "plug & play" type of questions. You need to really understand the course materials to solve the problems. Answers must show the basic principles used in the solution. *Answers without explanation will not receive credit, even if correct.* Messy handwritings will receive lower scores. There will be *no* change of score after one week of return date. Neither makeup exams nor early final will be given. Arrange your travel plan accordingly.

**GRADING POLICY FOR LECTURE:**

Discussion	10%	Quizzes	25%
Mid-term	30%	Final	35%

**Final Exam: Thursday, December 13, 8:00am, 66 Roessler**