

Preparatory Physics PH100-2D

Semester:	Spring 2004
Class Room:	CH 301
Time:	Tu & Th, 12.30 PM-1.45 P.M
Professor:	Dr. S Rao Vallabhaneni
Office:	CH 347
Email:	rao@uab.edu
Phone:	996 4081
Office Hour:	Thursday, 11.00 A.M - 12.30 P.M
Prerequisite:	MA 106 or equivalent
Text Book:	Schaum's Outlines – Beginning Physics by Alvin Halpern Cutnell & Johnson / Halliday & Resnick
Suggested books:	(whichever you will be using for your next Physics Course(s).
Physics Homework Web Site:	http://homework.phy.uab.edu

Course description and Objectives: Introduction: Introduction to vectors, kinematics, dynamics, conservation laws and momentum. Emphasis will be given to the skills required for problem solving using algebra and trigonometry. Emphasis on the basic mathematical skills for problem solving- not much on physical concepts. The primary goal to get the skills needed for future physics courses.

Course Outline:

Chapter	Description	No of lectures
1	Introduction and Mathematical background	2
2	Motion in a Straight line	4
3	Motion in a Plane	3
4	Forces and Equilibrium	4
5	Newton's Second Law	4
6	Work and Mechanical Energy, Power	4
7	Simple Machines	2
8	Impulse and Linear Momentum	4

Class Activities (Total Time)	2.00 Hrs
Quizzes(Upto 3)	1.0 Hr (Total)
Mid Terms and Class Tests(Up to 3)	3 x 60 min
Time for Review(about)	1.0 Class (1.0Hr. 15 min)

Course Evaluation:	
Class Room Activities(CA)	10%
Home Work(HW)	20%
Class Quizzes**	10%
Mid Term/Tests **	30%
Final Examination*	30%
* Comprehensive	
** <u>No makeup quizzes or Mid Term/Tests</u> will be given unless there is any medical emergency or concern. Check with Instructor before the event. <i>Final Examination will take place in the last class.</i>	

HOME WORK:
Homework is done on the computer using CAPA.
Physics Home Work Website: <http://homework.phy.uab.edu>
Students will submit solutions to their homework through the website.
CAPA ID's can be obtained on line at <http://homework.phy.uab.edu>.
In order to submit the solutions you need internet access and a web browser. It will be explained briefly in the class. It is a good idea to start homework as early as you can before the deadline. No extension for the homework beyond the deadline. The computer will not allow to enter the solutions after the deadline.

General Information:
Attendance is not recorded , but it is expected. You are encouraged to ask the questions in the class. If you are having problem with the subject or problem solving, you are welcome to walk in to my office and get the clarification. It is a good opportunity for you in PH 100 to get the skills and practice for Problem solving which will compliment in your future Physics courses. Time to time reading assignments will be given.

Through out the semester I will be supplementing the lectures and the text with Handouts and Problems sets.
I will point out nice web sites related to this course from time to time and make use of them constructively. We should work as a team and my co-operation and help will be with you through out the semester.
All the best and Good Luck.
Have a enjoyable and at the same time profitable semester.