

Fall 2005: Course Syllabus for PH 100-1B.

Course number and Name: **Preparatory Physics. PH 100-1B**
Professor: **Dr. S Rao Vallabhaneni**
Office Hours: **Monday, 11.30 A.M - 12.30 P.M**
Office: **CH 306**
Phone: **934 8143**
Email: **rao@uab.edu**
Class Room: **CH 445**
Time: **M,W,& F 9.05 A.M to 9.55 A.M**

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.

Prerequisite: MA 106 or equivalent
Text Book: Schaum's Outlines –
Beginning Physics by Alvin Halpern
Suggested books: Cutnell & Johnson / Halliday &
Resnick
(whichever you will be using for your
next Physics Course(s).

Physics Homework Web Site: **<http://homework.phy.uab.edu>**

Schedule for Evaluations:
September 23, 2005: Quiz No.1 September 30, 2005: Classtest #1
October 21, 2005: Quiz No.2 October 28, 2005: Classtest #2
November 21, 2005: Quiz No.3 November 28, 2005: Classtest #3

Final Examination (Comprehensive): December 5,2005.
NOTE: Only best two quizzes and best 2 tests will be taken into account.
No make up quizzes or class tests will be given. If there are special reasons, please check with me before the evaluation.

Every month there will be one class activity or group activity and it will be announced at least one week before in the class.

Course Evaluation:	
Class Room Activities(CA)	10%
Home Work(HW)	20%
Class Quizzes**	10%
Mid Term/Tests **	30%
Final Examination*	30%
* Comprehensive	
**No makeup quizzes or Mid Term/Tests 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>	

Course Outline and Schedule:

WEEK	Month/Dates	Topics	Quizzes/Tests	Remarks
1	8/19	Introduction. Self Test		
2	8/ 22-26	Chapter 1.		Ch.1 is combined With 2.
3	8/29 to 9/2	Chapter 2		Problem solving
4	9/ 5-9	Chapter. 2		Will be given
5	9/12-16	Chapter 2		Importance.
6	9/19-23	Chapter 3	Sep 23 rd , Quiz	
7	9/26-30	Chapter 3	Sep 30 th , Test	Graphical
8	10/3-7	Chapter 3		kineamatics
9	10/10-14	Chapter 3		
10	10/17-22	Chapter 4	Oct 21 st , Quiz	
11	10/24-28	Chapter 6	Oct 28 th , Test	
12	10/31 - 11/4	Chapter 6		
13	11/7-11	Chapter 6		
14	11/14-18	Chapter 7 & 8		
15	11/21-25	Chapter 8	Nov 21 st , Quiz	
16	11/28 – 12/2	Chapter 8 & Review.	Nov 28 th , Test	
17	12/5-		Final, Dec 5/05	Final is a Comprehensive

Once in every three weeks , there will be a class(group) activity and it will be announced in the class. There will be a review for every test

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.
