

Fall 2005

Course Syllabus for PHS 101-1C

Course Number and Name: PHS 101-1C, Physical Science
Name of the Instructor: Dr. S Rao Vallabhaneni
Office Hours: Wednesday 11.30 A.M to 12.30 P.M
Office: CH 306
Phone No: 934 8143
E-mail: rao@uab.edu
Course Meeting Times: M, W & F 10.10 A.M to 11.00 A.M
Lab: Friday 11.00 A.M to 12.00.

Course Description:

The aim of this course is to present, as simply and clearly as possible, the physics part of physical science and its essentials. It deals with scientific method, mechanics, matter and energy, electricity and magnetism and waves.

The emphasis is going to on basic concepts, showing how scientists approach. Students will be given “ Hands- Approach” using computers, Internet, simulations in addition to conventional experiments. Students will be given an opportunity to use “ Video Point” software and digital video camera, to edit and analyze movies of various sports. This experience will help the students to do a formal project of their choice under the guidelines. The students will be given an opportunity to work as groups for lab/class room activities and projects. Through out the course emphasis will be given for scientific method. Problem solving will be used through out the course. It is the hope that this course will help the students to understand the world around them and see how things will work in day-to-day life.

Schedule for Evaluations:

September 23, 2005: Quiz No.1 September 30, 2005: Class test #1

October 21, 2005: Quiz No.2 October 28, 2005: Class test #2

November 21, 2005: Quiz No.3 November 28, 2005: Class test #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.

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>	

Formal Project: Deadline for submission is December 2nd, 2005.

Text: The Physical Universe, 10th Edition(Spl) by Krauskopf & Beiser.

Attendance: Attendance is not compulsory but for lab activity, quizzes and tests it is essential since there is make up labs, quizzes and tests.

Course Outline and Schedule:

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

