



**PRAIRIE VIEW A&M UNIVERSITY
DEPARTMENT OF PHYSICS**

**PHYS-1123: PHYSICAL SCIENCES
COURSE SYLLABUS
Fall-2008**

Professor: Premkumar B. Saganti, Ph. D.

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Lecture Sessions: Tuesday/Thursday 12:30– 1:50 PM
Room: NSB-303

Office Hours: Tues/Wed/Thurs 11:00 – 12:00 PM

Text Book: **Physical Sciences**, 7th Edition
Bill W. Tillery
McGraw Hill
ISBN: 978-0-07-304992-1 © 2007

Supplementary Material and Help:

1. A comprehensive set of course material taught and tested will also be made available through WebCT and can be accessed via <http://webct.pvamu.edu:8900/>
2. Selected information and material will also be made available through the website - <http://www.pvamu.edu/pages/2811.asp>
3. A series of tutorial sessions are also being made available through the physics department for individual problem discussions.

COURSE DESCRIPTION:

An algebra based course in general physics with topics primarily in three main areas of physics - (i) Introductory Mechanics, Dynamics, Energy, Heat, Sound, and Electricity; (ii) Introductory Physical, Organic and Analytical Chemistry; and (iii) Introduction to Planetary Systems and Astronomy.

COURSE GOAL and OUTCOME:

The primary goal of this course is to understand the fundamental concepts in the fields of mechanics, electricity-magnetism, heat, sound, light, and modern physics. The primary outcome of this course is to achieve the knowledge in the physical sciences and its implications in the scientific and engineering advancements.

PERFORMANCE EVALUATIONS and GRADING:

- A set of problems will be assigned from each chapter discussed in the class and are expected to be worked-out independently and individually and turned in for credit by the specified time.
- There will be two in-class tests in addition to the scheduled mid-term and final examination.
- Students will also be assigned individual project reports based on physical sciences application in our daily lives and are expected to be accomplished as specified.
- GRADES **A:** 90-100; **B:** 80-89; **C:** 70-79; **D:** 60-69; **F:** <60

ATTENDANCE POLICY:

Class will start and end at the prescribed times. Attendance in every class is expected and is the student's responsibility. Absence or tardiness may result in lowered grades. Excessive absenteeism, whether EXCUSED or UNEXCUSED, may result in a student's course grade being reduced or assignment of a grade of "F". Absences are accumulated beginning with the first day of class. More detailed information is available from the **Registration and Term Information Fall 2005** (http://acad.pvamu.edu/content/registrar/files/fall2005_revised.pdf).

ASSISTANCE FOR STUDENTS WITH DISABILITIES:

Lecture class room and additional tutorial session will all be held in New Science building and this building is accessible to people with disabilities. My office is also located in New Science building (Room 330-AD). For any further clarification and requirements, you may contact the Office of Disability Services on campus located in Evans Hall Room 315, Tel: (936) 857-2610.

CONDUCT AND ETHICS:

A strict code of ethics will be imposed in the class room lecture sessions, in all the examinations, and on all homework assignments. It is imperative that the student will make every effort to ensure that he / she will abide by the university standards and expectations and pledge to refrain from any unethical activity and plagiarism.

COURSE TIME-LINE:

This schedule may be modified as needed -

<i>Week:</i>	<i>Start Date</i>	<i>Topic</i>	<i>Comments</i>
1	25-Aug-08	Ch. 2: Motion / Dynamics	
2	1-Sep-08	Ch. 2: Motion / Dynamics	
3	8-Sep-08	Ch. 3: Energy	
4	15-Sep-08	Ch. 3: Energy	Exam-1: In Class TEST
5	22-Sep-08	Ch. 4: Heat	
6	29-Sep-08	Ch. 5: Sound	
7	6-Oct-08	Ch. 6: Electricity	
8	13-Oct-08	Ch. 7: Light	Exam-2: Mid-Term Exam
9	20-Oct-08	Ch. 8: Atomic Structure	
10	27-Oct-08	Ch. 8: Atomic Structure	
11	3-Nov-08	Ch. 9: Chemical Bonds	
12	10-Nov-08	Ch. 10-11: Reactions / Solutions	
13	17-Nov-08	Ch. 12: Organic Chemistry	Exam-3: In Class TEST
14	24-Nov-08	Ch. 13: Nuclear Chemistry	
15	1-Dec-08	Course Review	Course Review
16	8-Dec-08	Final Examination Period	Exam-4: FINAL Exam