



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

**PHSC-2123: PHYSICAL SCIENCES
COURSE SYLLABUS
Fall-2007**

Professor: Premkumar B. Saganti, Ph. D.

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Lecture Sessions: Tuesday/Thursday 2:00– 3:20 PM
Room: NSB-101

Office Hours: Tuesday/Thursday 11:00 – 1:00 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 set of CDs with solutions to problems in the chapters covered from the text book are available in the Coleman Library (on Reserve).
2. A set of binders will also be periodically updated in the Coleman Library (on Reserve) with class notes and other hand-out material.
3. Selected information and test material will also be made available through the website - <http://www.i2i.pvamu.edu/physics/saganti.htm>
4. A series of tutorial sessions are also being made available through the physics department for individual problem discussions.

COURSE DESCRIPTION:

General physical sciences 2nd level course with (i) general chemistry; (ii) astronomy; and (iii) earth sciences. General physics aspects were expected to be covered in 1st level course.

COURSE GOAL and OUTCOME:

The primary goal of this course is to understand the fundamental concepts in chemistry including: atomic and periodic properties, solutions, nuclear reactions. In astronomy including: solar system, universe, earth and its dynamics in space. In earth sciences including: rocks and minerals, plate tectonics, volcanoes, atmospheric sciences and weather phenomena.

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: Start Date</i>	Topic	Comments
1	20-Aug	Ch. 8: Atoms and Periodic Properties
2	27-Aug	Ch. 8: Atoms and Periodic Properties
3	3-Sep	Ch. 11: Water and Solutions
4	10-Sep	Ch. 13: Nuclear Reactions
5	17-Sep	Ch. 14: The Universe
6	24-Sep	Ch. 15: The Solar System
7	1-Oct	Ch. 16: Earth in Space
8	8-Oct	Ch. 17: Rocks and Minerals
9	15-Oct	Ch. 18: Plate Tectonics
10	22-Oct	Ch. 19: Building Earth's Surface
11	29-Oct	Ch. 20: Shaping Earth's Surface
12	5-Nov	Ch. 22: Atmosphere of Earth
13	12-Nov	Ch. 23: Weather and Climate
14	19-Nov	Thanks Giving
15	26-Nov	Course Review
16	3-Dec	Final Examination Period (TBD)