

PHSC 1121-002, Physical Science Survey Laboratory

Spring Semester, 2007

Instructor: Dr. Prem Saganti

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Office Hours: tbd.

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The tentative schedule of meetings this semester is outlined below:

- LAB 1: Syllabus and lab manuals distributed and discussed; introduction to the scientific method, measurement and density (01/24/07)
- LAB 2: Plate tectonics, volcanoes and earthquakes (01/31/07)
- LAB 3: Rocks, Minerals, and Geologic Time (02/07/07)
- LAB 4: Energy Conversion (02/14/07)
- LAB 5: The H-R Diagrams of Stars (02/21/07)
- LAB 6: Sunspots and Space Weather (02/28/07)
- LAB 7: Planets and Solar Systems (03/07/07)
- LAB 8: (No Lab due to Midterm Examinations (03/14/07)
- LAB 9: The Reasons for the Seasons (03/21/07)
- LAB 10: Weather Maps and Forecasts (03/28/07)
- LAB 11: Global Warming (04/04/07)
- LAB 12: Tracking Hurricanes (04/11/07)

Objectives: To enable students to have a hands-on experience with the laws of physical science and the instrumentation used to study these laws. This class is the laboratory complement to the Physical Science Survey course, PHSC 1123, and contains experiments based on the material introduced in lecture.

Grading: Each lab will be worth 10 points. Attendance will be ten points, making a semester total of 110 points. The laboratory activities are group projects, with students working in groups of 2 to 3 per group.

Lab Reports & Attendance: The lab report will be due one week after the lab is performed. Although permitted to work in groups, each person will hand in a lab report for each laboratory, containing the names of the members of the group. Attendance is required and a roll will be taken during each class. No grade is given for lab periods where students do not have a valid excuse for missing class. Students can make up one missed lab by the end of the semester at an agreed-upon period before the final exam period. Opportunities for extra credit will be given in some of the labs.
