Information for Students:

1. You should bring the following materials to every class:
   a. Calculator. It doesn’t have to be fancy, just capable of doing basic arithmetic.
   b. Graph paper.
   c. Loose paper for lab reports, calculations and graphical work done in class, and homework. You should keep these papers in either a folder or a loose leaf notebook. The point is to be able to hand in these papers, get them back and keep them in the proper order among your other papers.
   d. Pencil with a sharp point and a pen.
   e. Ruler in centimeters, protractor.

2. Text
   There is no textbook for this course, but there will be several handouts. Please bring these to each class.

3. Lab work
   a. Each lab report may represent part of a day’s work, a whole day’s work, or several days’ work. The report should have a title, a date, and begin with a paragraph stating what you expect to do. Data should be written down carefully when you first take it. Do not plan to rewrite it carefully at a later time. Hand in the original data. The report should end with a discussion of your conclusions. Lab reports will usually be completed in class, not at home.
   b. The lab report must be on pages separate from any notes that you take of class discussion. It should be a complete and independent record of what you have done.
   c. Some measurements will be done individually, some in groups of three. Although some measurements will be done in groups, all analysis of data should be done individually.

4. Absences and lateness
   Because this course is based largely on participation in work in class, there has to be a strict limitation of lateness and absence.
   a. No more than four absences will be permitted. Anyone with more than four absences will have to withdraw, or will fail. This limit of four includes absences for illness, family problems, car accidents, required activities for another course, or any other reason.
   b. Consistent lateness will not be permitted.
   c. Unexcused absence and lateness may lower your grade.
5. Homework
   There will be some homework which you will be asked to hand in, and which will be graded. If you don’t get a good grade, it may be possible to redo the homework, and have it regarded.

6. Lab reports and homework must be handed in on the day they are due. If they are late you will lose points. More important, work should be completed at the appropriate time because we will be using your results and conclusions, and if you don’t have those results, you can’t proceed to the next thing.

7. Exams
   There will be exams during the term, and a final, but the final will not be cumulative. The final will be on Monday May 23, 3:30-5:30 PM.

8. Museum Trip
   You will be asked to visit the Hall of Science in Queens, and to write a short report on the special exhibit, “Seeing the Light”. I’ll give you more information about this later in the term.

9. Cheating
   Cheating or copying on exams will not be tolerated. Any cheating will result in a zero for that exam.

10. Grade
    The grade for the course will be based on the following
        Homework  25%
        Lab reports  40%
        Exams  35%

    Absence and lateness may reduce the grade below what these percentages would give. The museum report will count as one of the homeworks.

Course Topics
1. Introduction, ray diagrams
2. The shadow experiment
3. Pinhole experiment
4. Apparent size experiment
5. Parallax experiment
6. Refraction
7. Reflection
8. Lenses
9. Dispersion
10. Interference