Syllabus for Physics 3313 Spring 2012 - M/W 1:00-2:20, SH 332

Professor: Dr. Ramon Lopez, SH 008 or SH 010 (in the basement), relopez@uta.edu, 817-272-0386. Office hours: M/W, 11:00-12:00 or by appointment.

By far the best way to reach me is by email. If you leave a phone message it could be a week or more before get back to you. Please use your UTA email address. I will not respond about confidential matters to non-UTA addresses. **Read your UTA email regularly.** I will send out important information to the class that way.

Text: Physics for Scientists and Engineers, Giancoli, 4th edition, Chapters 36-44. If you have the entire Giancoli book, fine. Otherwise buy Vol 3. at the bookstore.

Homework website: http://www.masteringphysics.com/

Grading

Homework - 25%

Your textbook (vol 3.) **if bought from the bookstore** should come with access to the homework website (Mastering Physics). You might have access from a previous semester if you used it for 1443 or 1444. If you do not have access you need to go to the website, buy access, and register for the class with course ID PHYS3313LOPEZS12

Lecture - 5%

Bring an index card to class. At the end of lecture you will be given one or two minutes to write down something that you learned in lecture or something about which you have a question. **Print** your name at the top of the card and turn it in before you leave. Completed, turned-in cards will be counted for full credit.

Midterm Exams (2) - 40% Exams will be given in lecture, **exam 1 on 2/29** and **exam 2 on 4/23**.

Comprehensive Final Exam - 30% **Monday, May 7, 11:00-1:30 PM**

Course content

This course will cover the following topics: Relativity; Elementary Quantum mechanics; Atoms, molecues, and solids; Radioactivity; nuclear physics, and elementary particles; Astrophysics and cosmology; We will also touch on complex systems and systems science (not in the book).