Physics 2401

Principles of Physics II
Course Outline
Fall Semester 2008

Instructor: Thomas L. Gibson **Office:** Sc 27 **Office Hours:** 2:00-3:00 (M-Th)
Required Text: *Physics For Scientists And Engineers, 4th edition*, by Giancoli with *Mastering Physics* (student access kit) and *Laboratory Manual for Physics 2401* Principles of Physics II.
Course Coverage: Time permitting, the course will cover material from chapters 21-35 in the text.
Course Web page: www.phys.ttu.edu/~ritlg/courses/p2401/index.html

Grading Policy:

The following six scores will be accumulated during the course of the semester:
OHLR; Exam 1; Exam 2; Exam 3; Final Exam; Final Exam.
The course grade will be the average of the OHLR and the four highest exam scores of the five listed above. **NO MAKEUP EXAMS will be given.** Your letter grade will be determined on the following scale:
(55-65) D; (66-81) C; (82-91) B; (92-100) A. I do use +/- grades one point either side of a grade boundary, e.g., grades of 80 or 81 earn a C^+ while grades of 82 or 83 earn a B^-.

OHLR:(*Online Homework + Laboratory/Recitation*)

Online homework from the Mastering Physics website will be assigned and graded on a regular basis. This will constitute half of the credit for the OHLR category.

Laboratory/Recitation will be conducted during the assigned lab periods. Your laboratory/recitation score will constitute the other half of the credit for the OHLR category.

If you receive credit for taking the assessment pretest at the start of the semester, you will receive 10 **bonus** points in your OHLR category. *No other extra credit or bounus points* are available.

Hour Exams: Three one-hour exams will be given. **You will need a scantron sheet for each exam**.

Final: A *comprehensive* two-and-a-half-hour final exam will be given. You will also need a scantron sheet for this exam.

Important Dates:

August 25 = Monday---Classes start for the Fall Semester.
September 1 = Monday---Labor Day, University Holliday.
October 27 = Monday---Last day to drop course.
November 26-30 = Wednesday-Sunday---Thanksgiving, University Holiday.
December 3 = Wednesday---Last day of classes.
December 5 = Friday---**Final Exam (Chapters 21-35)** (7:30 a.m. to 10:00 a.m.)

Course Goals:

This course is intended to acquaint students with the basic laws of physics, to develop a better understanding of physical science in general, and help prepare you for other upper-division physics and engineering classes. To this end, the course will emphasize a mix of laboratory, conceptual understanding and standard "end-of-chapter" homework solving skills.

Expected Learning Outcomes

Upon successful completion of this course, students will be able to:

1. Understand and be able to apply Gauss's law for electric and magnetic fields.
2. Be able to use the laws of reflection and refraction to understand simple optics.
3. Understand and be able to manipulate the fundamental elements of basic circuits.

Methods for Assessing the Expected Learning Outcomes

The expected learning outcomes for the course will be assessed through:

A beginning of the semester pretest and an end of the semester posttest.

Approximate Coverage and Date for 1-hour Exams:

- Chapters 32-35; Wednesday, September 24, 2008.
- Chapters 21-25; Wednesday, October 22, 2008.
- Chapters 26-29; Wednesday, November 19, 2008.

Important Notes:

- Any student who, because of a disability, may require special arrangements in order to meet the course requirements should contact the instructor as soon as possible to make any necessary arrangements. Students should present appropriate verification from Student Disability Services during the instructor's office hours. Please note instructors are not allowed to provide classroom accommodations to a student until appropriate verification from Student Disability Services has been provided. For additional information, you may contact the Student Disability Services office at 335 West Hall or 806-742-2405.
- The faculty is strongly committed to upholding standards of academic integrity. These standards, at the minimum, require that students **never** present the work of others as their own.
- Since there are many of you and only one of me, if you have questions about the course, check the Frequently Asked Questions page first.

Strategy for Success:

- Be prepared! Study your notes, read the material in the text *before* we cover it in class, and take advantage of the online resources. This will help you keep up, will make for more productive classroom interaction, and will help keep you prepared for those exams that will make up most of your semester grade.
- Begin all homework assignments as soon as possible. The assignments take time and thought.
- Once you can work through a problem with your notes, book, study group, etc., write the question down on a blank sheet of paper and then try to rework it entirely on your own a day or so later.
- Never wait until the night before a test to "begin" studying.
- Physics requires a lot of work outside the classroom. Don't get behind.
- See your instructor if you are stuck--that's why they pay me the big bucks!

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