Course Syllabus PHYS 2401 Section 1
Spring 2009

Instructor: Prof. Mark Holtz **E-mail:** mark.holtz@ttu.edu
Office: SC 120 **Office Hours:** 10:00-11:00 (TTh) and by appointment
Class: TTh 11:00 – 12:20 SC 7 **Help Session:** Saturday 1:00 SC 7 (Dr. Holtz or Gibson)

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: The course will cover material from chapters 21-35 in the text. Note the scheduling begins Chapters 32-35 followed by 21-31.
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.

OHLR: (*Online Homework + Laboratory/Recitation* are required components of this course)

Assignments are available at: www.phys.ttu.edu/~ritlg/courses/p2401/p2401_homework.html

Online homework from the Mastering Physics website will be assigned and graded weekly. This will constitute half of the credit for the OHLR category. The course ID is MPHOLTZ70546.

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 bonus points* are available.

Exam ground rules: You are allowed to bring a 3" x 5" equation card which you prepare by yourself. Front and back is okay. Anything larger than this will be cut by the instructor using approximate measurements. You are allowed to bring a non-programmable calculator.

In-Class Exams: Three one-hour exams. **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.

Final Exam (Chapters 21-35) Monday, May 4, 1:30 p.m. to 4:00 p.m. in SC 7.

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.

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Approximate Coverage and Dates for In-Class Exams:

- Chapters 32-35; Tuesday, February 10, 2009.
- Chapters 21-25; Tuesday, March 10, 2009.
- Chapters 26-29; Tuesday, April 14, 2009.

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 committed to upholding high standards of academic integrity. These standards, at the minimum, require that students **never** present the work of others as their own.

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. Don't get behind or wait until the night before to begin.
- Don't "blow off" the first exam just because there is a dropped score. The purpose of the dropped score is in case of illness or other extenuating circumstances.
- Use pencil and paper to do homework problems, keep your solutions for reviewing prior to exams. The on-line homework cannot be viewed after the due date. Once you can work through a problem with your notes, book, study group, etc., be sure you can rework it entirely on your own.
- If you stuck, use available department resources including course instructor, TAs, SI.

Classroom Etiquette:

- It is extremely rude to leave during a lecture. Since attendance of lectures is optional, please do not come to the lecture if you are unable to attend for the full duration. Physical illness is an obvious exception. If you have an expected reason to depart early, please inform the lecturer at the beginning of class and sit in a convenient location for leaving without disturbing the class.
- Reading newspapers or unrelated material, texting or talking on your cell, visiting with your neighbor, and irrelevant activities are not allowed in class. Do these things and you will be asked to leave.
- No laptops or any other electronic devices are allowed in class unless the need for such device for reason of a disability is documented by AccessTECH.