Course Syllabus PHYS 2401 Section 1
Spring 2012

Instructor: Prof. Mark Holtz  Class: TTh 11:00 – 12:20 SC 7
Office: SC 120  Office Hours: TTh 12:30–1:30 and by appointment
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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.

Grading Policy: The following scores will be accumulated during the course of the semester: Each in class exam counts for 15% of your final grade, the final exam counts for 30%. The lowest 15% will be dropped in computing your final grade (either lowest exam, or the final will be weighted 15%) so that exams account for 60% of your final course percentage. No makeup exams will be given. The lab will count 15%, recitation 15%, and on-line homework 10% of your final grade for a total of 40%, with nothing dropped. This 40% plus the exams (60%) make up your final course average.

Your letter grade will be determined on the following scale: (55-65) D; (65-80) C; (80-90) B; (90-100) A.

Online homework from the Mastering Physics website will be assigned and graded weekly. The course ID is SPRING2012P2401Holtz. If you are establishing a new account, use your ttu.edu e-mail address as your account name. If you already have an account, continue to use that.

Laboratory and Recitation will each be conducted during the assigned meetings. Your laboratory and recitation scores will be managed entirely by the instructors for those meetings.

Exam ground rules: You are allowed to bring a 3”×5” equation card that you prepare 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 calculator compatible with what is allowed for taking the SAT exam. If you do not have that calculator, a less sophisticated ($10) scientific calculator is sufficient. A more sophisticated calculator is not allowed. You will need a scantron sheet (orange, five answer) for each exam including the final.

Approximate Coverage and Tentative Dates for Exams:

− Chapters 21-25; February 16.
− Chapters 26-29; March 27.
− Chapters 30-33; April 24.

In-class exams will be returned at the next class meeting. If there is any question about your score you have 24 h after the exam is returned to the class to discuss it with the instructor.

Final Exam (Chapters 21-35): The comprehensive final exam will be given on Thursday, May 10, 1:30 p.m. to 4:00 p.m. SC 7. Three 3”×5” equation cards are allowed.

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 science and engineering classes. To this end, the course will emphasize a mix of laboratory, conceptual understanding and standard end-of-chapter homework solving skills.

Methods for Assessing the Expected Learning Outcomes: The expected learning outcomes for the course will be assessed through certain problems on the homework sets, certain problems on the in-class exams, and certain problems on the final exam.

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

1. Understand and apply electromagnetic theory for electric and magnetic fields.
2. Use the laws of geometrical and physical optics.
3. Understand and manipulate the fundamental elements of basic circuits.
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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 in 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 homework, labs, and exams that make up your semester grade.

• Begin all homework assignments as soon as possible. Don’t get behind or wait until the due date 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 are stuck, use available university resources including course instructor, TAs, and 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.