Course Syllabus PHYS 2401 Section 2
Spring 2013

Instructor: Prof. Wallace Glab **E-mail:** wallace.glab@ttu.edu
Office: SC 26, 742-3776 **Office Hours:** MWF 9:30–10:30 a.m., TTh 2:30–3:30 p.m.
Class: MWF 12:00 p.m. – 12:50 p.m, SC 07

Required Text: *Physics for Scientists and Engineers with Modern Physics, 8th edition,* by Serway and Jewett with access to *Webassign* (ISBN for bundle 9781285143811) and *Laboratory Manual for Physics 2401* Principles of Physics II.
Course Coverage: The course will cover material from chapters 23-38 in the text.

Course Goals: This course is intended to acquaint students with the scientific method, basic laws of physics, to develop a better understanding of physical science in general, and develop reason skills and strategies to 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 performance on selected questions from the homework sets, labs, recitations, exams, and 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.
4. Be able to apply scientific reasoning to the solution of problems.

Online homework from the Webassign website will be assigned and graded roughly weekly. The class key is ttu 1497 0897.

Laboratory/Recitation will be conducted during the assigned lab and recitation periods.

Grading Policy: The following scores will be accumulated during the course of the semester, and given the attached amount of credit towards your final grade: Homework (10%); Lab (10%); Recitation (5%) Exam 1; Exam 2; Exam 3; Final Exam; Final Exam, with each exam carrying 18.75% of the total credit. Your one lowest exam score will be dropped (either an exam, or one of the final exam counts). **No makeup exams will be given.** Your letter grade will be determined on the following scale: (55-65) D; (65-78) C; (78-90) B; (90-100) A.

Exam ground rules: You are allowed to bring a 3" x 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. Wireless capable devices (including your phone) must be stowed out of sight during the exams.

You will need a scantron sheet for each exam.

Final Exam: A *comprehensive* final exam will be given. You will also need a scantron sheet for this exam. Four 3" x 5" equation cards are allowed.

Final Exam (Chapters 23-38) Tuesday, May 14, 7:30 a.m.-10:00 a.m. SC 07.

Class schedule: see below

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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. Pay special attention to examples worked in class.
- 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 might not be viewable 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 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.

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Course Schedule (approximate and subject to change!)

Week	**Chapter and events**
1/16-1/18	23
1/21-1/25	23, 24
1/27-2/1	24, 25
2/4-2/8	25, 26
2/11-2/15	26
2/18-2/22	27, 28 Exam 1 **Friday, 2/22** (ch. 23-26)
2/25-3/1	28, 29
3/4-3/8	29, 30
Spring Break!	
3/18-3/22	30,31
3/25-3/29	31 Exam 2 **Friday, 3/29** (ch. 27-31)
4/1-4/5	32
4/8-4/12	34 (we will skip 33)
4/15-4/19	35
4/22-4/26	36, 37
4/29-5/3	37 Exam 3 **Wednesday, 5/1** (ch. 32-36)
5/5-5/7	38

Tuesday, 5/14 Final (ch. 23-38) 7:30-10:00 a.m. Science room 07