Syllabus for Physics 2421

Instructor: Dr. Charles T. Hawkins, Room 223A, phone 747-7541, email cthawkins@utep.edu

Office Hours: One hour before or after class, as needed, and other times by appointment.

Text: (Required): University Physics, Young and Freedman, 13th edition is the official text of the course. Schaum’s Outlines for College Physics by Frederick J. Bueche and Eugene Hecht is suggested for reference. Students are also expected to monitor their UTEP email accounts and their Blackboard.

Online Homework: Sapling Learning Online Homework (One-Term Access):
   ISBN 978-0-9833859-5-0. http://www2.saplinglearning.com/ If you purchase online from Sapling, the cost is $29.99 for the semester. If you must purchase through the bookstore, it is available there for about the same price.

Areas of physics included are

1. Coulomb’s Law and electric Fields
2. Electric Potential and Capacitance
3. Ohm’s Law, Resistance and Current
4. Electrical Power
   EXAM NUMBER 1
5. Equivalent Resistance and Simple Circuits
6. Kirchhoff’s Rules
7. Magnetic Fields and Magnetic Forces
8. Sources of Magnetic Fields
   EXAM NUMBER 2
9. Magnetic Flux and Induced Electromotive Force
10. Electric Generators and Electric Motors
11. RC and RL Circuits and the Time Constant
12. Alternating Current
   EXAM NUMBER 3

Course Format:
   The class is structured around lectures, problem solving, and discussions in the classroom. Each student must also be enrolled in an appropriate lab section, and if the lab grade is not passing (60 or more), the Final Course Grade will be an “F”. A passing Lab Grade will be counted as 15% of the Final Course Grade. Each student must also be enrolled in a workshop where problems will be solved by one of our graduate students. Please take this very seriously, as your grades could be affected negatively.

   Homework assignments are to be handled by the graduate student in charge of your workshop. Late homework should not be accepted. Make-up work or late work also will be in the hands of the workshop supervisor. Missed exams, however, are handled by me, and on a case by case basis. Make-up exams will be administered only if the student can demonstrate that the absence was gravely necessary.

   Attendance and punctuality are highly advised, as they are indicative of what your behavior will be in the work-place. I would not consider giving a student a letter of reference had his or her attendance been lax.
**Grade Determination:** There will be three major exams at appropriate intervals, and a Comprehensive Final Exam at the end of the course. The Final Course Grade will be determined using the following weights:

- Average of Major Exams: 35%
- Daily grades, homework, workshop report, and/or quizzes: 25%
- Final Exam: 25%
- Laboratory: 15%

Students should keep all graded papers in a neat folder and keep tally of their own grades as the semester progresses. This folder will be necessary if the student wants a review of grades at semester’s end. If a student wishes a review of an exam grade, this must be done within three classes, or the original grade will stand. To review a final exam or final course grade, the time limit will be three weeks after the grade is posted on Goldmine.

**UTEP Policies on Academic Dishonesty**

If an instructor suspects a student of cheating, he/she is to collect evidence that he/she believes indicates this (e.g. exams, student work, etc). This evidence is then turned over to the Assistant Dean of Students (ADS). The student will receive an incomplete on whatever piece of work is under consideration. No other actions will be taken by the instructor until the case is closed: no discussion, no accusation, and no different treatment. The student is encouraged to continue participating in the class. The ADS will consider the evidence provided her and then contact the accused student (and possibly peers) and investigate the allegations. The ADS will then make a decision as to whether cheating occurred and determine what the consequences will be. The instructor will be consulted by the ADS as to whether the results of the investigation are acceptable to him/her. If acceptable, the instructor will simply carry out the consequences sent to both the student in question and the instructor in a formal letter from the Dean of Students. While the seriousness of the identified dishonest actions determines the nature of the consequences, possible consequences include: a counted “zero” on the piece of work, a letter grade reduction, or being placed on academic probation. Students have the right to appeal a decision and participate in a formal public hearing.

**Instructor’s personal norms:**

I would ask you to please not leave the classroom during lectures unless there is a real emergency (especially in view of the size of the class). Also, I would greatly prefer that you turn off all cell phones pagers and laptops when you enter the classroom. However, I am seeing more and more as the semesters come and go, that in our new “TECHNOLOGY AGE”, this may no longer be a practical request on my part. You’ve all heard the adage “You can’t teach old dogs new tricks”. We’ll just have to talk about this more in class.

Questions are always welcomed, and don’t ever think that your question is silly. In all probability, more than half the class is wondering about the same thing.

**SPECIAL CIRCUMSTANCES:**

If you are a military student with the potential of being called to military service and/or training during the course of the semester, you should contact me no later than the second day.

If a you suspect you have a disability and need an accommodation, contact the Disabled Student Services Office (DSSO) at 747-5148 or at <dss@utep.edu> or go to Room 106 Union East Building. The student is responsible for presenting to the instructor any DSS accommodation letters and instructions.