Syllabus for General Physics II, 1404

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

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

Text: (Required): Schaum’s Outlines for College Physics by Frederick J. Bueche and Eugene Hecht is suggested for reference. College Physics by Giambattista, Richardson, Richardson, 2nd Edition is the official text of the course. Students are also expected to monitor their UTEP email accounts and their Blackboard.

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

13. Reflection and Refraction of Light
14. Thin Lenses
15. Optical Instruments
16. Interference and Diffraction of Light
EXAM NUMBER 4

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.

Homework assignments are to be turned in at the beginning of the next class or as instructed. Neatness is of the essence. Messy work will be returned ungraded.

Late homework is not accepted. There is no make-up work at all and no extra-credit work under any circumstances. Missed exams are handled on a case by case basis.

Attendance and punctuality are highly advised. Some daily grades and/or quiz grades will be taken periodically at the beginning or the end of class. Students who miss quizzes or exams will receive a grade of zero. From time to time, work will be done in class in groups. In these occasions, tardiness will be penalized.
Grade Determination: There will be four 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, and/or quizzes: 25%
- Final Exam: 25%
- Lab: 15%

Students must keep all graded papers in a neat folder and keep tally of their own grades as the semester progresses. Also, this folder will be necessary if the student wants a review of grades at semester’s end. If a student wishes to review a daily grade or 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.

Students copying or cheating in any way will be given zeros the first time. After that they will be referred to the chairman of the department for appropriate action.

Instructor’s personal norms:

I would ask you to please not leave the classroom during lectures unless there is a real emergency. 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 an old dog 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.

Tutoring: TBA

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 of class.

If a student has or suspects he/she has a disability and needs an accommodation, he/she should 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.