Syllabus for General Physics I, 1403

Instructor: Dr. Charles T. Hawkins, Room 223A, phone 747-7541, email cthawkins@utep.edu
Office Hours: One hour before and/or after class as needed, and other times by appointment.

Text (Required): Physics by Giambattista, Richardson, Richardson, 2nd ED, reference material - - Schaum’s Outlines, College Physics, 10th Edition, by Frederick J. Bueche and Eugene Hecht, Students are also expected to monitor their UTEP email accounts and their Blackboard.

Areas of physics included:

1. General introduction, Units, Conversions, Scientific notation, Significant figures
2. Vectors
3. The vectors Displacement, Velocity and Acceleration
4. Linear motion, Circular motion
5. Projectile motion
6. Newton’s Laws
   EXAM NUMBER 1 (Feb. 9 ??)
7. Work and Energy
8. Hooke’s Law and Power
9. Linear Momentum
10. Circular motion
11. Newton’s Laws in Circular Motion problems
12. Rotational Dynamics
   EXAM NUMBER 2
13. Introduction to Thermodynamics
14. Problem set 1
15. First Law of Thermodynamics
16. Problem set 2
17. Entropy and the Second Law of Thermodynamics
   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 automatically be an “F”. A passing Lab Grade will be 15% of the Final Course Grade. (see Grade Determination below).

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, except for extreme emergency situations. There is no extra-credit work under any circumstances.

Attendance and punctuality are highly advised. Some daily grades and/or quiz grades will be taken periodically at the beginning, during, or the end of class. Students who miss quizzes or exams will receive a grade of zero. Grades of “Late arrivals” taken during class will have points deducted
**Grade Determination:** There will be three Major Exams at intervals indicated above, and a Comprehensive Final Exam at the end of the course. The Final Course Grade will be determined using the following weights:

- Average of Three 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. This folder will be necessary if the student wants a review of final or course 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 dropped from the class.

**Instructor’s personal norms:**

Please do not leave the class during lectures unless there is an emergency. Turn off all cell phones and pagers when you enter the class. Leave laptops turned off, or at home. Questions are always welcomed.

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 must contact me no later than the first week 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 DSSO accommodation letters and instructions during the first two weeks of the class.