

Syllabus and Course Policies

Physics 2325 – Fall 2006

Textbook: University Physics, Volume 1, 11th edition, by Young and Freedman

Instructor: Professor G. D. Earle, FO 2.322B

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Office Hours: GDE M&W 3-5 PM JP T&Th, hours to be announced

Overview

Physics 2325 is an overview of Newtonian Mechanics, which essentially deals with the motion of solid objects under the influence of external forces. Students are expected to have completed a first course in calculus prior to taking Physics 2325. At the end of the course successful students will be able to use the basic equations of mechanics to mathematically describe and predict all aspects of two-dimensional motion, including cause and effect relationships involving friction, collisions, simple forces, accelerations, velocities, displacements, momentum, and energy.

Grading

There will be two in-class exams during the semester, plus a final exam during finals week. Each of these exams will count for 20% of the course grade, with homework and quizzes (sometimes unannounced) comprising the other 40% of the grade.

Homework

Assignments will be done via the Pearson/Addison-Wesley website which can be found at www.masteringphysics.com. Registering for Physics 2325 at this website using the course ID EARLEPHYS2325 will automatically create a gradebook listing and will allow homework assignments to be viewed and completed online. Homework assignments will be announced in class on a weekly basis, and posted on the website throughout the semester. Login information that will allow students to access the online homework resources is provided with each new textbook purchase. For students who purchased used books, the login material may be purchased separately through the website. Help on homework assignments is available through the TA, as well as through the professor. Please do not drop in spontaneously to obtain help – limit your inquiries to stated office hours only, or ask questions in class.

Coverage

The course will cover Chapters 1-15, skipping 11 and 14. This is a total of 13 chapters, or roughly one chapter per week of the semester. Chapter 1 should be a review of material covered in high school, so very little class time will be spent on it. Students are expected to read and do homework assignments as required to keep pace with the lectures. This is true even if no reading assignment is announced in class. In most cases it should be obvious from the class notes which sections of the text are being discussed. Reading a few sections ahead (in advance of the lectures) is strongly recommended, as it will enable students to ask better questions during lectures.

Web-based Information

This page is available on the web by clicking the link titled Recent Courses Taught under the page address given below. From time to time throughout the semester other information such as practice exams and/or helpful handouts may be made available through links on this site:

<http://www.utdallas.edu/~earle>