

## **PHYSICS 1310 : CONCEPTS IN PHYSICS**

**Fall 2010**

### **Information and Policy Statement**

**Instructor:** Dr. David Murdock      **Office:** Bruner Hall, Room 221

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**Office hours:** Open! Y'all come by Br 221.      **Prerequisites:** None

**Web Page:** <http://iweb.tntech.edu/murdock/ph1310/ph1310.html>

**Textbook:** *Physics and Everyday Thinking*, F. Goldberg, S. Robinson, V. Otero

**Materials:** You will probably need a large 3-ring binder to hold the loose pages from the textbook. Any other materials will be supplied in class.

**Students with disabilities:** Students with a disability requiring accommodations should contact the Office of Disability Services (ODS). An Accommodation Request (AR) should be completed as soon as possible. The ODS is located in the Roaden University Center, Room 112; phone 372-6119.

**Methods:** In this course the student is firmly in charge of her/his own learning. There will be very little formal lecturing and lots of hands-on and minds-on activities in small groups.

**Objectives:** Not only to learn some of the fundamental principles of Physics and the way they apply to everyday situations, but also to give you a feeling for the way a scientist sees the world and how logical reasoning can be applied in all situations. Another important goal is to reduce any "science anxiety" you may have, which may unconsciously be transmitted to any students you may teach in the future.

This course meets the general education outcomes for natural sciences courses; those outcomes are listed at [www.tntech.edu/gened/learnoutcomes.html](http://www.tntech.edu/gened/learnoutcomes.html).

**Attendance:** Attendance at all class sessions is essential! The structure of this course is such that missing even one class can seriously endanger your understanding of what is going on. However, I will assume you are mature enough to realize this, and so will not be taking attendance. You will be responsible for any announcements made in class.

**Assessment:** Details of the assessment tools are given in the Introduction in the course packet.

**Grading:**

Regular Homework	100 pts. (20 @ 5 pts each)
ESI Homework	25 pts. (1 @ 25 pts each)
Quizzes (5)	200 pts. (4 @ 50 pts each)
Final Exam	100 pts.

Total available: 425 pts.

**Grade Levels (approx):** A:  $\geq$  375 pts.  
B: 350-374 pts.  
C: 310-349 pts.  
D: 270-309 pts.  
F:  $<$  270 pts.

Should normal classroom activities be disrupted by a flu outbreak, students will be given new instructions for the course via E-mail.