

Guidelines for Physics 108 Paper

ONLY ONE QUIZ GRADE CAN BE REPLACED BY THIS PAPER

1. Draft due to instructor by November 28th 2006.
2. Return draft to student with comments December 5th 2006.
3. Final paper due to instructor by December 12th 2006.

PAPERS turned in after these dates will not be accepted!

However, papers can be turned in earlier than the above dates

Preferably, the paper should be submitted electronically using Microsoft Office Word for Windows 2003 or an earlier version. Contact the instructor if this format is not available to the student or if the student does not have use of a computer.

Each paper will be **no more than two pages** single spaced typewritten using “Times New Roman” 12 point font. Write approximately one-half page for each of the three areas described below including one very short example (1 to 3 typewritten lines of the paper at most) for each area.

DO NOT COPY word-for-word from the textbook. Use your own words to describe a concept.

For those who want to replace the grade received on QUIZ #1

Describe the basic concepts covered in the following three areas and covered in Chapters 2 – 5 in the textbook.

- The equations of linear motion
- Newton’s Three Laws of Motion
- Gravity including “free fall” and terminal velocity

For those who want to replace the grade received on QUIZ #2

Describe the basic concepts covered in the following three areas and covered in Chapters 6, 7, and 8 in the textbook)

- Momentum and the Conservation of Momentum
- Energy and the Conservation of Energy
- Rotational motion

For those who want to replace the grade received on QUIZ #3

Describe the basic concepts covered in the following three areas and covered in all or parts of Chapters 10, 19, 20, and 26 in the textbook)

- Projectile and satellite motion
- Sound and the Doppler Effect
- Wave motion and the electromagnetic spectrum

For those who want to replace the grade received on QUIZ #4

Describe the basic concepts covered in the following three areas and covered in all or parts of Chapters 22, 23, and 34 in the textbook)

- Properties of light and color
- Coulomb's Law and the Conservation of Charge
- Nuclear fission and fusion