

## General Physics I - Homework Checklist

Name \_\_\_\_\_

Please complete and staple this sheet on top of your homework assignment.

Assignment number \_\_\_\_\_

The next two assignments (HW 14 & HW15) must have this sheet attached to the front. These assignments will not be accepted without this checklist.

- \_\_\_ Name, course number, assignment number on upper right corner of each page.
- \_\_\_ Questions/problems clearly labeled in left margin in requested format (*i.e.*, Q 2-5, P 4-34).
- \_\_\_ Staple in upper left-hand corner.
- \_\_\_ Only one side of the page of 8.5" × 11" loose-leaf paper used (please, no pages ripped from spiral-bounds).
- \_\_\_ Handwriting is legible and work is well-organized.
- \_\_\_ Appropriate variable names (see textbook) are used for all physical quantities (*e.g.*,  $m$  for mass,  $v$  for velocity).
- \_\_\_ All physical quantities should include correct units.
- \_\_\_ Insure that the work you turn in is your own and not copied from a classmate or data-mined from the web.

For all questions, you should include ...

- \_\_\_ a brief summary of the question (so you can understand it without the text).
- \_\_\_ a reproduction of any relevant figures from the text and/or your own relevant sketches.
- \_\_\_ a statement of the overlying principle behind the question.
- \_\_\_ the use of appropriate variable names for all physical quantities.
- \_\_\_ clear, well-labeled sketches, free-body diagrams, vector diagrams, before/after sketches (when applicable).
- \_\_\_ answers to the questions with an explanation as to the reasoning behind your responses. Answers without any explanation will be given zero credit.

For all problems, you should include ...

- \_\_\_ a brief summary of the problem (so you can understand it without the text).
- \_\_\_ a statement of the overlying principle behind the problem (your starting point) and any associated equations.
- \_\_\_ a list of all given (known) quantities in complete mathematical statements (including units and any conversions).
- \_\_\_ the use of appropriate variable names for all physical quantities.
- \_\_\_ a reproduction of any relevant figures from the text.
- \_\_\_ clear, well-labeled sketches, free-body diagrams, vector diagrams, before/after sketches (when applicable).
- \_\_\_ a clear definition of a coordinate system, if applicable.
- \_\_\_ a series of statements on how you are solving the problem (narrative).
- \_\_\_ any suitable graphs generated from a spreadsheet, Maple, or MATLAB.
- \_\_\_ a copy of any Maple or MATLAB (or other) code used to solve any aspect of the problem.
- \_\_\_ any blank formulae that you are using for the solution
- \_\_\_ complete and valid mathematical and algebraic statements in a logical order.
- \_\_\_ final result/answer boxed or circled expressed as a complete mathematical statement with a reasonable number of significant figures and appropriate units.
- \_\_\_ a reflection on your final result (Does it make sense? What does it mean?).