

General Exam-Grading Instructions

PHYS 213: Engineering Physics 1

Spring 2010

General:

- An answer key will be provided for each exam with partial credit values indicated. Unless explicitly stated otherwise in the exam key, however, the general principles outlined below will always apply.
- Total the score NEATLY at the bottom right corner of each page.

Worked Problems:

- Used wrong physical principle: Deduct all points.
- Deduct 1 point for an incorrect or missing unit in an ANSWER. Student does not need to show units in work, but must show unit in answer. If a student writes a unit in an alternative, correct form (e.g. kg m/s^2 instead of N), they should get full points.
- Deduct 1 point for a purely numerical error.
- Deduct 1 point for incorrect prefix, e.g. the μ in " μm " means " 10^{-6} " so that " $1 \mu\text{m} = 10^{-6} \text{ m}$ ".
- If the student does not get full credit you MUST indicate errors with a SMALL "x". Do not "x" out large portions of the student's work. Put a small neat "x" beside anything that is wrong.

- If the answer is wrong, be sure to give some partial credit IF the student starts the problem correctly — equations MUST be in symbol form, not just a bunch of numbers to get partial credit. For instance, to get partial credit, write as:

$$v^2 = v_0^2 + 2a(x - x_0) = (3)^2 + 2(9.8)(5 - 0)$$

not as

$$v^2 = (3)^2 + 2(9.8)(5 - 0).$$

- If a student uses an incorrect answer from a previous part of a problem on the next part AND does everything correct or the next part, in MOST CASES they should get FULL CREDIT for the next part although the numerical answer will be wrong.

Multiple Choice:

- If an answer is incorrect, circle the correct answer(s).
- In questions where the correct answer involves only one choice, only a zero or full credit is possible.
- In questions where the correct answer involves more than one choice, deduct one point for each incorrect response. It might be possible in this way to lose more points than the question was worth. In this case, the grade for that question is zero (never negative!).
- No partial credit for a multiple choice question, except in cases where more than one response must be circled to get full credit.