Physics 112-01—General Physics II: Electricity, Magnetism, and Optics
Homework Assignment #1
Due Friday, February 1, 2013, 11 a.m.

This assignment has 3 basic parts: Enroll in Mastering Physics, do the on-line “HW #1” assignment, and do the pencil-and-paper problems below.

Enroll in Mastering Physics.

First, you will need a “Student Access Kit”. If you bought your text at Lafayette’s book-store, you should have received the kit with the text. If you got a 2-semester kit last semester, you should be able to use it again; no further purchase is necessary. If you do not have a kit, you can purchase one on-line at http://www.masteringphysics.com. Be sure to click on the right textbook—we are using Walker’s Physics, fourth edition. Once you have your kit, you can register online at http://www.masteringphysics.com. When asked to provide a College ID, please use your Lafayette e-mail ID, e.g. something like smithj. Do not use your “L-number.”

One you have registered, you can log in at the Mastering Physics web site and enroll yourself in this course. The course ID is LafayettePhys112Spring2013.

Do “HW #1.”

The first part of this assignment is intended to help introduce you to the system, including the ways to enter mathematical expressions. It is worthwhile to go through it. The first eight problems are for practice (i.e. they don’t count) but you should try them. You will get more out of the system and ultimately save yourself time and avoid frustration if you invest a little time now. You probably did these same problems last semester, but a quick review may still be helpful.

The last five problems are the graded physics problems for this week. They count, so don’t skip them.

Do the Pencil-and-Paper problems.

Do the following problem: Chapter 19: #89 (30 pts.)

Please write neatly and show your work clearly. Staple your pages together.

Grading.

The text rates problem difficulties with “dots.” One-dot problems (such as Ch. 19 #10) typically count 10 points each, two-dot problems (such as Ch. 19 #28) typically count 20 points, and three-dot problems (such as Ch. 19 #89) typically count as 30 points. Your total score for each week will be the sum of the on-line and pencil-and-paper points divided by the total number of available points.

Academic Honesty

You may use, without proof, any results from your text by simply quoting the result and giving the reference (e.g. equation number or page number). You should understand how that result was obtained, but you need not transcribe the derivation.

If you get bogged down with any of the problems, do not hesitate to discuss them with me or with a fellow student. However, if you discuss a problem with anyone (besides me) you should acknowledge that collaboration. Please see the Academic Honesty policy for more information about appropriate and inappropriate collaboration.