Modern Physics – HOMEWORK PROBLEM SETS

GENERAL HOMEWORK SUBMISSION INSTRUCTIONS:

There are two ways you can submit your solution to all HW problems:

1. As **email** to the instructor, skuhn@odu.edu. Your submission **must** be sent **before 11:59 p.m.** (1 minute before midnight) on the day on which the Problem Set is due. The email must contain the *complete* solution, either typed in the body of the email or typeset using an electronic file as attachment. If a question requires you to display mathematical formulas (e.g., algebraic manipulations and derivations), you can either write those inside the email in the form of some programming language (e.g., "4*3 = 12") or you can attach a document (Mathematica, Word, .pdf, LaTex,…) or, if *absolutely* necessary, a scanned hand-written solution *only* for that part of the HW. Similarly, graphs and plots have to be either computer-generated or (neatly!) drawn by hand and scanned in. Any hand-written material must be clean and neat and of sufficient size to be discernable to my old eyes, scanned or photographed at high contrast and sharpness, and attached to your email as a .pdf or .jpg file. I will subtract points for submissions that do not follow these rules.
2. As a hardcopy at the beginning of class (i.e., earlier in the day). I still encourage you to use computer typeset printout as much as possible (to increase readability), or at least write clearly and neatly! All-typewritten solutions will receive extra credit!

IN ALL CASES, make sure that your full name and student UIN appears on all your submissions (in the **body** of the email and **inside any attached file** for case 1) to guarantee you get credit for your work! Also, do **not** copy someone else's solution (honor code!) – you can ask for help if you get stuck, but you must submit your **own** work. See the syllabus for more explanations.

Please follow the following format: For each problem (part), type the problem number (e.g., "1a" or "2c"), followed by a SPACE, and then your solution. For "yes/no" questions, enter "Y" or "N" (or "T"/"F" for "true/false" questions), for multiple choice questions, enter the correct choice ("1" or "2" etc.) without any additional characters, and for numerical questions, enter the result in the form "3.1415" or "3.1415e12" (to within ±10% accuracy at least). For numerical questions, you **may** add your derivation of the result – in that case, you might receive partial credit even if your result is wrong. For conceptual and computational questions, enter the **text** and equations (see above for formatting instructions). **Only** for those cases *may* you use a **clean** scanned image of a handwritten derivation, included in your electronic submission, if you follow that option.