

## 1 Introducing yourself to PH315

This homework question is a chance to introduce yourself to the instructional team and practice uploading hand-drawn text/figures to gradescope.

- (a) What name do you prefer to be called by? If you want, please share your pronouns.
- (b) If the pronunciation of your name is possibly confusing, can you describe how I should pronounce your name?
- (c) Which physics classes have you completed (high school and university)? Are you taking any physics classes concurrently with this class?
- (d) What major(s)/minor(s) are you considering?
- (e) In this class, what is something you are looking forward to?
- (f) What concerns do you have about this class?
- (g) Sketch a quick drawing/diagram representing a hobby/passtime/interest that you like to pursue. (Future HW problems will require drawing/diagrams, so this is a warm up)

## 2 Scale reading assignment

Read this 3 page excerpt from the book “Scale” by Geoffrey West (also available in plain text), then answer the following questions:

- (a) When modeling the motion of a planet, what is a property of the planet we can ignore without causing significant error? Conversely, what is a property of the planet we cannot ignore if we wish to predict the planet’s motion?
- (b) This excerpt describes a “toy model” of a gas. The model is considered “coarse grained” because it ignores many fine-grained details. List one or more physical properties of gas molecules that the toy model ignores.
- (c) Why do physicists use toy models and zeroth-order approximations?

## 3 Gradescope instructions PH315

Scan and upload your answers to Gradescope using the Gradescope tab in Canvas. You can use the scanner in Weniger 304F, or a scanning app on a cell phone, or make a pdf directly from a tablet computer; Gradescope offers advice and suggested apps at this URL. The preferred format is PDF. Photos or JPEG scans are less easy to read (and much larger file size), and should be used only if no alternative is available.

On Gradescope, you will be prompted to associate submitted pages with problem numbers by selecting pages on the right and questions on the left. You may associate multiple problems with the same page if appropriate. Remember, no more than 2 problems on one page.

If you have a problems with this process, please contact your instructor or teaching assistant.