

## Errata (Fall 2024)

### PHYS 205B-001: UNIVERSITY PHYSICS

*School of Physics and Applied Physics, Southern Illinois University–Carbondale*

Last updated: August 18, 2024

The following is not a complete list. It is maintained since 2021 Oct 13.

1. 2017 Spring, Solutions to MT-02, Problem 5,

$$Q_3 = C_3 V_3 = (30.0 \text{ nC})(4.0 \text{ V}) = 120 \text{ nC}. \quad (1)$$

2. 2021 Fall, Solutions to MT-03, Problem 7, magnitude of  $\mathbf{F}_3$  evaluates to 12 mN.
3. 2023 Spring, Solutions to HW-06, Problem 3, Item (f), Radius of electron orbit  $R$  should be  $8.6 \times 10^{-7} \text{ m}$ .
4. 2023 Fall, Solutions to HW-08 Video, Problem 4: At timestamp 1:12:33 there is an error in division. It should be  $I_1 = 0.5 \text{ mA}$ . This leads to  $I_2 = 0$  and  $I_3 = 0.5 \text{ mA}$ .