(Preview of) Midterm Exam No. 01 (Fall 2025) PHYS 205A-002: UNIVERSITY PHYSICS

School of Physics and Applied Physics, Southern Illinois University-Carbondale
Date: 2025 Feb 15

(Name)	(Signature)

Instructions

- 1. Seating direction: On even-numbered seats in alternate rows, B, D, F,
- 2. Total time = 50 minutes.
- 3. There are 4 conceptual questions and 3 problems in this exam.
- 4. Equation sheet is provided separately.
- 5. To be considered for partial credit you need to present your work in detail and organize it clearly.
- 6. A simple calculator (with trigonometric functions) is allowed.
- 7. Use of smart devices, including smart watches, is strictly prohibited. They should stay out of reach during the exam.
- 8. Academic misconduct will lead to a failing grade in the course.

The following is only a guideline.

- 1. (5 points.) On dimensional analysis.
- 2. (5 points.) On graphical analysis of motion.
- 3. (5 points.) On vector algebra.
- 4. (5 points.) On projectile motion.
- 5. (10 points.) On 1-D kinematics.
- 6. (10 points.) On vector algebra.
- 7. (10 points.) On projectile motion.